

# Apoptosis

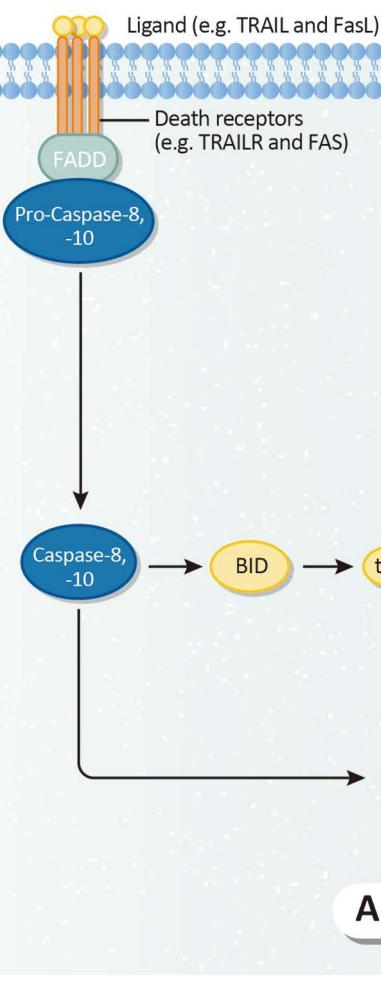
www.genetex.com

Your Expertise

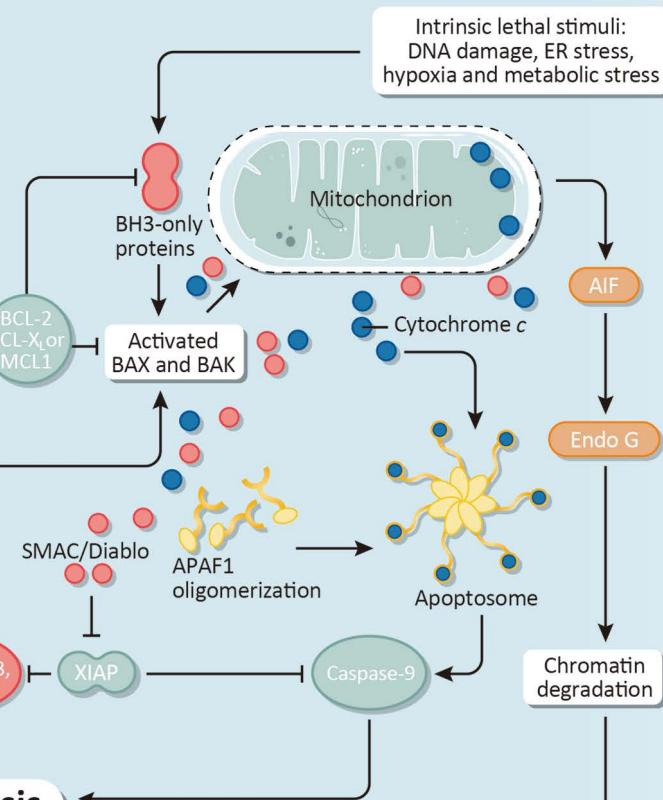
Our Antibodies

Accelerated Discovery

## Extrinsic pathway



## Intrinsic pathway



Apoptosis is programmed cell death and is crucial for development and tissue homeostasis. It can be initiated by various stimuli and can progress through a receptor-mediated extrinsic pathway or an intrinsic pathway that starts with mitochondrial events. A spectrum of key players is involved, including transcription factors such as the tumor suppressor p53 and FOXO3a that drive expression of pro-apoptotic genes, effectors such as Caspase 3 and ROCK1, and factors like PARP and AIF that function in a caspase-independent pathway.

## Highlighted Products

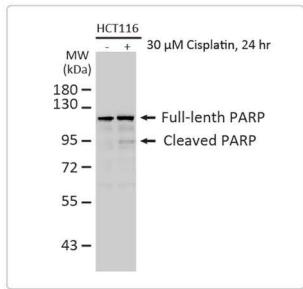
 Citation Support

 KO/KD Validation

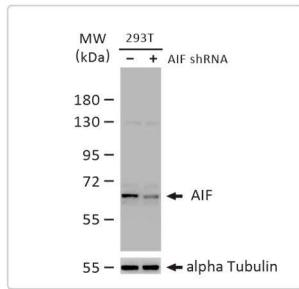
 Comparable Abs

 IP-MS Analysis

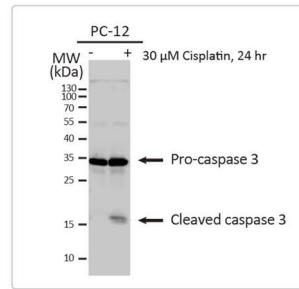
 Orthogonal Validation

 Protein Overexpression


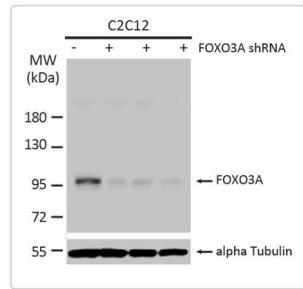
PARP antibody [N2C1], Internal (GTX112864)  

AIF antibody [N1C1] (GTX113306)  

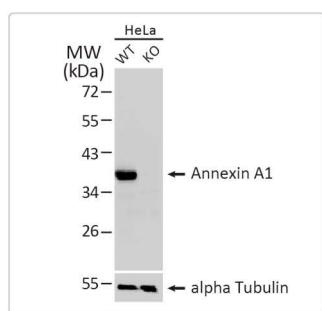


Caspase 3 antibody (GTX110543)   

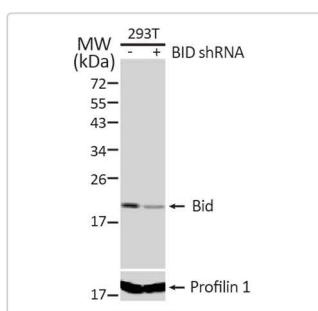


FOXO3A antibody [C3], C-term(GTX100277)  

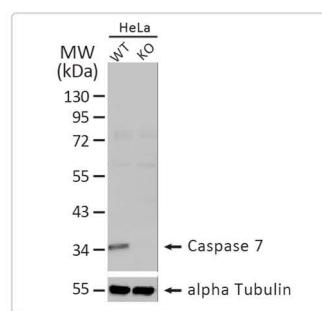
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX60476	Alf antibody [4E7]	Ms mAb	Hu, Ms, Rat, Mk	WB, ICC/IF, IHC-P, FACS, ELISA
GTX113306	Alf antibody [N1C1]	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
GTX01157	Alf antibody [SZ05-01]	Rb mAb	Hu, Ms	WB, ICC/IF, IHC-P, FACS
GTX101070	Annexin antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
GTX84886	Annexin antibody [3A8]	Ms mAb	Hu, Rat, Mk	WB, ICC/IF, IHC-P
GTX101067	APAF1 antibody	Rb pAb	Hu, Ms, Rat	IHC-P
GTX22001	APAF1 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, ELISA, IHC
GTX86887	Bad (cleaved Asp71) antibody	Rb pAb	Hu	WB, IHC-P
GTX50702	Bad (phospho Ser112) antibody	Rb pAb	Hu, Mk	WB, IHC-P
GTX50136	Bad (phospho Ser136) antibody	Rb pAb	Hu, Ms	WB, IHC-P, IP
GTX32371	Bad (phospho Ser155) antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
GTX130108	Bad antibody	Rb pAb	Hu	WB
GTX31688	Bad antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P, ELISA
GTX64302	BAK antibody [GT1110]	Rb mAb	Hu, Ms	WB, ICC/IF, IHC-P, FACS
GTX100063	BAK antibody [N1N2], N-term	Rb pAb	Hu	WB, IHC-P
GTX32465	Bax antibody	Rb pAb	Hu, Ms, Rat, Chk	WB, ICC/IF, IHC-P
GTX109683	Bax antibody [N1N2], N-term	Rb pAb	Hu, Rat	WB, ICC/IF, IHC-P, IP
GTX34425	Bcl-2 antibody [100/D5]	Ms mAb	Hu	WB, ICC/IF, IHC-P, FACS
GTX100064	Bcl-2 antibody [N1N2], N-term	Rb pAb	Hu, Ms, Rat, Zfsh	WB, ICC/IF, IHC-P
GTX59678	Bcl-XL antibody	Rb pAb	Hu, Ms, Rat	WB, IP
GTX84834	Bcl-XL antibody [4A9]	Ms mAb	Hu, Ms	WB, ICC/IF, IHC-P
GTX25498	Bid (p15-specific) antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF
GTX110568	Bid antibody [N1C3-2]	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
GTX50308	Bim (phospho Ser69) antibody	Rb pAb	Hu	ICC/IF, IHC-P
GTX31697	Bim antibody	Rb pAb	Hu, Ms	WB, ICC/IF, ELISA
GTX84980	Bim antibody [1C2H4]	Ms mAb	Hu, Ms, Rat	WB, ICC/IF, ELISA
GTX113148	Caspase 10 antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
GTX22302	Caspase 3 (active) antibody	Rb pAb	Hu, Ms, Rat, Frt	WB, ICC/IF, IHC-P, IHC-Fr, IHC
GTX86952	Caspase 3 (cleaved Asp175) antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P, ELISA
GTX110543	Caspase 3 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IHC-Fr, IP
GTX34164	Caspase 3 antibody [5E1]	Ms mAb	Hu, Ms, Rat, Chk	WB, IHC-P
GTX123679	Caspase 7 antibody	Rb pAb	Hu	WB, IHC-P, IP
GTX22301	Caspase 7 antibody [B4-G2]	Ms mAb	Hu, Ms, Rat	WB, IP
GTX86893	Caspase 8 (cleaved Asp384) antibody	Rb pAb	Hu	WB, IHC-P
GTX110723	Caspase 8 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
GTX59555	Caspase 8 antibody [C502S]	Ms mAb	Hu, Rat	WB, IHC-P, IP
GTX134589	Caspase 8 p10 antibody	Rb pAb	Hu	WB, IHC-P
GTX22324	Caspase 9 (active) antibody	Rb pAb	Hu	WB, ICC/IF, IP
GTX132331	Caspase 9 (cleaved Asp330) antibody	Rb pAb	Hu, Rat	WB
GTX86912	Caspase 9 (cleaved Asp353) antibody	Rb pAb	Hu, Rat	WB, IHC-P
GTX112888	Caspase 9 antibody [N2C3]	Rb pAb	Hu, Rat	WB, IHC-P, IP



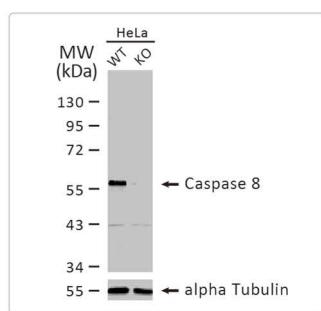
Annexin A1 antibody (GTX101070)



Bid antibody [N1C3-2] (GTX110568)

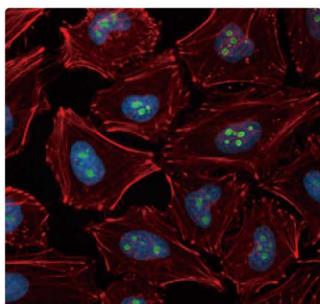


Caspase 7 antibody (GTX123679)

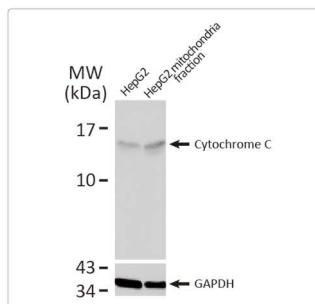


Caspase 8 antibody (GTX110723)

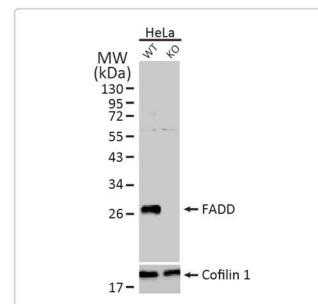
Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX129903	CDKN2A / p14ARF antibody	Rb pAb	Hu	WB, ICC/IF, IP
GTX30433	CDKN2A / p14ARF antibody	Rb pAb	Hu	WB, IHC-P, IHC-Fr, ELISA
GTX11048	CDKN2A / p14ARF antibody [ARF 4C6/4]	Ms mAb	Hu	WB, ICC/IF, IP, ELISA
GTX100087	cIAP1 antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P
GTX629402	cIAP1 antibody [GT422]	Ms mAb	Hu	WB, ICC/IF
GTX113128	cIAP2 antibody [C1C3]	Rb pAb	Hu, Rat	WB, IHC-P
GTX50113	c-Myc (phospho Ser373) antibody	Rb pAb	Hu	WB, IHC-P
GTX00684	c-Myc (phospho Ser62) antibody [33A12E10]	Ms mAb	Hu, Ms	WB, ICC/IF, IHC-P, FACS, IP, ELISA
GTX01137	c-Myc (phospho Thr58/Ser62) antibody [SZ02-06]	Rb mAb	Hu	WB
GTX103436	c-Myc antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IP, ChIP assay
GTX628459	c-Myc antibody [GT168]	Ms mAb	Hu	WB, IHC-P, FACS, IP
GTX108585	Cytochrome C antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P, IHC-Fr
GTX633691	Cytochrome C antibody [GT577]	Ms mAb	Hu, Ms, Rat	WB, IHC-P
GTX23900	Diablo antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P, IP, ELISA
GTX57593	Diablo antibody [AT19F2]	Ms mAb	Hu	WB, ICC/IF, FACS
GTX15827	Diablo antibody [SMAC 17 1-87]	Ms mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
GTX28414	DR4 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, ELISA
GTX00590	DR4 antibody [DR-4-02]	Ms mAb	Hu	ICC/IF, FACS, IP
GTX21675	DR5 antibody	Gt pAb	Hu, Ms	WB, ICC/IF, ELISA, IHC
GTX80179	DR5 antibody [DR5-01-1] (FITC)	Ms mAb	Hu	FACS
GTX10522	EndoG antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P, ELISA
GTX114385	EndoG antibody [N1C3]	Rb pAb	Hu, Ms	WB, ICC/IF
GTX100612	FADD antibody	Rb pAb	Hu	WB, IHC-P
GTX84542	FADD antibody [1C11]	Ms mAb	Hu	WB, FACS
GTX57546	FADD antibody [J1D2]	Ms mAb	Hu, MS	WB, ICC/IF, IHC-P
GTX13550	Fas antibody	Rb pAb	Hu, Ms, Rat, Dog	WB, FACS, IHC
GTX60557	Fas antibody [4F8H6]	Ms mAb	Hu	WB, ICC/IF, FACS, ELISA
GTX13549	Fas antibody [ZB4]	Ms mAb	Hu	WB, FACS, Blocking, IHC, in vivo
GTX31191	Fas Ligand antibody	Gt pAb	Hu, MS	WB, IHC-P, ELISA, Neutralizing/Blocking
GTX42375	Fas Ligand antibody [10F2] (Low endotoxin, azide free)	Ms mAb	Hu	FACS, IP, ELISA, Functional Assay, in vivo
GTX28421	FLIP antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, FACS, ELISA
GTX60781	FLIP antibody [7A3D12]	Ms mAb	Hu, Ms	WB, IHC-P, FACS, ELISA
GTX100277	FOXO3A antibody [C3], C-term	Rb pAb	Hu, Ms, Squirrel	WB, ICC/IF, IHC-P, IP
GTX54154	HTRA2 antibody	Rb pAb	Hu, Ms	WB, ICC/IF
GTX01173	HTRA2 antibody [ST54-05]	Rb mAb	Hu, Ms	WB, IHC-P
GTX101127	Lamin A + C antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
GTX629404	Lamin A + C antibody [GT9712]	Ms mAb	Hu	WB, ICC/IF, IP
GTX102026	MCL1 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IHC
GTX84140	MCL1 antibody [10F6]	Ms mAb	Hu	WB, ICC/IF, IHC-P, FACS



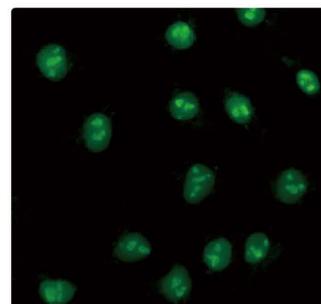
CDKN2A / p14ARF antibody (GTX129903)



Cytochrome C antibody (GTX108585)



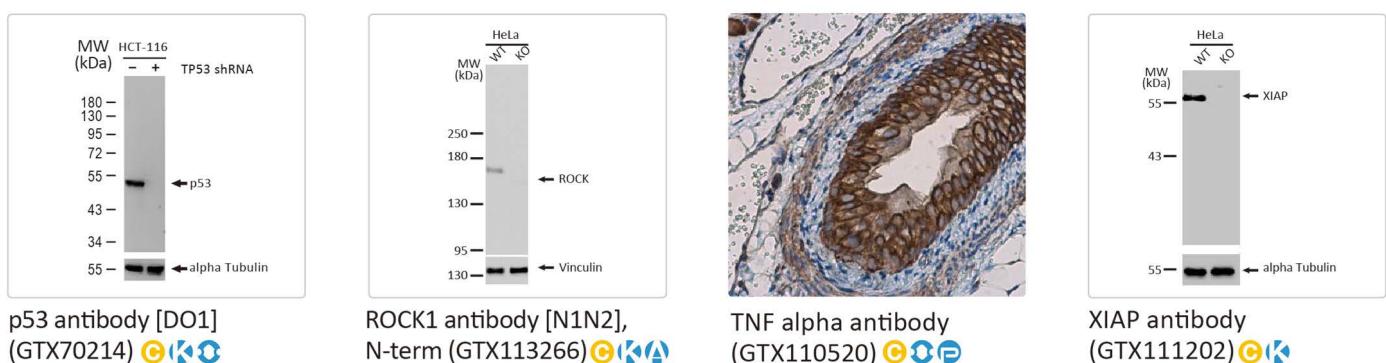
FADD antibody (GTX100612)



c-Myc antibody (GTX103436)

## Hot Products

Cat. No.	Product Name	Clonality	Reactivity	Applications
GTX50357	MDM2 (phospho Ser166) antibody	Rb pAb	Hu	WB, ICC/IF, IHC-P
GTX21094	MDM2 (phospho Ser185) antibody	Rb pAb	Hu, Ms, Rat	WB, IP, ELISA
GTX100531	MDM2 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IP, ChIP assay
GTX70278	MDM2 antibody [SMP14]	Ms mAb	Hu, Ms	WB, IHC-P, IHC-Fr, IP, IHC (Resin sections)
GTX85521	Noxa antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-P, ELISA
GTX13654	Noxa antibody [114C307.1]	Ms mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P
GTX88013	p53 (acetyl Lys379) antibody	Rb pAb	Hu	ICC/IF, IHC-P
GTX117515	p53 (mono-methyl Lys372) antibody	Rb pAb	Hu, Frg, Squirrel	WB, ICC/IF, IHC-P
GTX32995	p53 (phospho Ser15) antibody	Rb pAb	Hu	WB, ICC/IF
GTX33902	p53 (phospho Ser33) antibody	Rb pAb	Hu	WB
GTX33904	p53 (phospho Ser392) antibody	Rb pAb	Hu	WB
GTX32996	p53 (phospho Ser46) antibody	Rb pAb	Hu	WB, ICC/IF
GTX33905	p53 (phospho Ser6) antibody	Rb pAb	Hu	WB
GTX102965	p53 antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P, IP, ChIP assay
GTX70214	p53 antibody [D01]	Ms mAb	Hu, Ms	WB, ICC/IF, IHC-P, IHC-Fr, FACS, IP, ELISA
GTX132329	PARP (cleaved Asp214) antibody	Rb pAb	Hu	WB, ICC/IF
GTX628836	PARP antibody [GT6212]	Ms mAb	Hu, Rat	WB, IHC-P, IP
GTX112864	PARP antibody [N2C1], Internal	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IHC-Fr, IP, ChIP assay
GTX29643	PUMA antibody	Rb pAb	Hu, Ms	WB, ICC/IF, ELISA
GTX109675	PUMA antibody [C2C3], C-term	Rb pAb	Hu	WB, IHC-P, IP
GTX129591	ROCK1 antibody	Rb pAb	Hu	WB
GTX629972	ROCK1 antibody [GT464]	Ms mAb	Hu	WB
GTX113266	ROCK1 antibody [N1N2], N-term	Rb pAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, IP
GTX110520	TNF alpha antibody	Rb pAb	Hu, Ms, Rat, Bov	WB, ICC/IF, IHC-P
GTX35133	TNF alpha antibody [P/T2]	Ms mAb	Hu, Ms, Rat, Zfsh, Rb, Cat, Dog	ICC/IF, IHC-P, FACS
GTX102710	TNF Receptor I antibody	Rb pAb	Hu	WB
GTX00577-00	TNF Receptor I antibody [H398] (Low Endotoxin)	Ms mAb	Hu	IHC-P, IHC-Fr, FACS, IP, Functional Assay
GTX54424	TNF Receptor II antibody [80M2]	Ms mAb	Hu, Rat	WB, ICC/IF, IP, Functional Assay, Immunoassay
GTX59659	TRADD antibody	Rb pAb	Hu, Ms, Rat	WB, IP, IHC
GTX13042	TRADD antibody [N2C3]	Rb pAb	Hu	WB, IHC-P
GTX16381	TRAF2 antibody	Rb pAb	Hu, Ms, Rat	WB, ICC/IF
GTX01147	TRAF2 antibody [SD205-06]	Rb mAb	Hu, Ms, Rat	WB, ICC/IF, IHC-P, FACS
GTX113043	TRAIL antibody	Rb pAb	Hu	WB
GTX22435	TRAIL antibody	Rb pAb	Hu, Ms, Rat	WB, IHC-Fr, IP
GTX12124	TRAIL antibody [55B709.3]	Ms mAb	Hu, Cat, Dog	WB, IHC-P
GTX55394	XIAP (phospho Ser87) antibody	Rb pAb	Hu	WB
GTX111202	XIAP antibody	Rb pAb	Hu, Ms	WB, ICC/IF, IHC-P

p53 antibody [DO1]  
(GTX70214) C IKOROCK1 antibody [N1N2],  
N-term (GTX113266) C IKOTNF alpha antibody  
(GTX110520) C IKOXIAP antibody  
(GTX111202) C IKO